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NONREIMBURSABLE SPACE ACT AGREEMENT
BETWEEN
THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
LYNDON B. JOHNSON SPACE CENTER
AND KENTUCKY SPACE, LLC
FOR NEW OPERATION OF A MULTILAB ABOARD THE INTERNATIONAL SPACE STATION
NATIONAL LABORATORY.

ARTICLE 1. AUTHORITY AND PARTIES

In accordance with the National Aeronautics and Space Act (51 U.S.C. § 20113), this Agreement is entered into by the National Aeronautics and Space Administration Lyndon B. Johnson Space Center, located at 2101 NASA Parkway, Houston, Texas 77058 (hereinafter referred to as "NASA" or "NASA JSC") and Kentucky Space, LLC located at 200 West Vine Street, Suite 420, Lexington, KY 40507 (hereinafter referred to as "Partner" or "KS"). NASA and Partner may be individually referred to as a "Party" and collectively referred to as the "Parties."

ARTICLE 2. PURPOSE

NASA operates a share of the U.S. accommodations of the International Space Station (ISS) as a national laboratory in accordance with the NASA Authorization Acts of 2005 and 2010. To fulfill this mandate, NASA released an announcement entitled the "OPPORTUNITY FOR THE USE OF THE INTERNATIONAL SPACE STATION BY DOMESTIC ENTITIES OTHER THAN U.S. FEDERAL GOVERNMENT AGENCIES". Kentucky Space (KS) responded to that announcement with a proposal to further utilize the ISS by installing hardware that enables multiple small payloads to be operated within an Expedite the Processing of Experiments to Space Station (EXPRESS) Rack (ER) locker. Kentucky Space is a non-profit organization that was developed to promote space research and STEM education and jobs in the state of Kentucky. In light of the proven capabilities of Kentucky Space, NASA is entering into a Space Act Agreement with Kentucky Space in which NASA will provide on-orbit resources and launch and return opportunities, as defined in Article 3 – Responsibilities. This agreement will enable opportunities for space-based research, with the goal of future commercialization of products.

The KS MultiLab-1 will be a single EXPRESS Locker-sized platform that will allow for up to 48 1U CubeLab module volumes (100 mm x 100 mm x 100 mm) or any variety of CubeLab®, PocketLab, or other experiment standard. The KS MultiLab-1 is designed for flexibility; providing multiple power and data protocol options to payloads within the locker. All experiments will be tied into the KS MultiLab-1's main computer, which itself will communicate to the ground through the NASA STELLA system. Both downlink of data and uplink of experiment commands or new software will be available to Kentucky Space customers/users.

The KS MultiLab-1 will have two hookups. The first will be a power connector that interfaces the KS MultiLab-1 to the ER power cable that in turn connects to an ER power connector which will provide station power to the MultiLab-1. The second will be an Ethernet cable from the MultiLab-1 into the EXPRESS rack to allow data transfer. Experiments will be transferred back and forth from ISS via cargo

ships. It is expected that most experiments can be disposed of from the ISS, but it is anticipated that some will require return to the Earth.

The KS MultiLab-1 is not a locker insert but will be a complete EXPRESS rack locker structure meeting the external dimensions, mounting, thermal, air exchange, and containment requirements as outlined in the latest revision of the EXPRESS Rack-IDD (SSP 52000-IDD-ERP).

ARTICLE 3. RESPONSIBILITIES

NASA will use reasonable efforts to:

- 1. Provide Kentucky Space with on-orbit facility accommodations on the ISS. It is anticipated that KS will arrange for flights to the ISS through the agency of the entity chosen by NASA to operate the ISS National Lab or at Kentucky Space's discretion, directly through visiting vehicle providers (e.g. Energia [Progress, Soyuz], SpaceX [Dragon], Orbital Sciences [Cygnus], ESA [ATV] or JAXA [HTV]).
- 2. Provide Kentucky Space appropriate resources to allow Kentucky Space and its customers to effectively conduct research and development on the ISS at NASA's discretion following the process established to plan and integrate activities onboard the ISS.
- 3. Assist Kentucky Space to identify ground-based pre-flight and post-flight resources at launch and primary landing or alternate landing sites. This will include needed facilities and personnel as required to set-up labs, and operate and conduct work for each space flight mission on which Kentucky Space is manifested for pre-flight and post-flight payload recovery and processing. The provision of Space Life Science Laboratory (SLSL) resources and access to Space Station Processing Facility (SSPF) resources, if needed, will be provided under a separate Reimubursable Agreement between Kentucky Space and NASA.
- 4. Jointly approve, with Kentucky Space, Interface Control Documents (ICDs) developed by Kentucky Space, which define the interface between the Kentucky Space systems and the ISS.
- 5. Review and approve customers selected by Kentucky Space as part of the utilization of the ISS as a national lab.
- 6. Choose the entity to operate the ISS National Lab.

KS will use reasonable efforts to:

- 1. Develop the KS MultiLab-1 to interface with an EXPRESS rack. Kentucky Space shall be solely responsible for hardware design, development, manufacture, testing, system integration, as well as mockup development, operational procedures, ground test equipment development and the operational infrastructure to carry out a full-scale flight program.
- 2. Develop an operational concept for the payload, including on-orbit activation and operational constraints, crew interface requirements, and on-orbit maintenance.
- 3. Develop an Interface Control Document (ICD) jointly approved with NASA, which defines the interfaces between the KS MultiLab-1 and the ISS.
- 4. Design, manufacture and test the KS MultiLab-1 hardware and assist Kentucky Space partners and customers with the design, manufacture and testing of their experiments.
- 5. Engage academic, commercial and governmental institutions with opportunities to conduct research and development within the KS MultiLab-1 on board the ISS.
- 6. Conduct all flight research and development in accordance with NASA payload requirements.

- 7. Provide a selection process for customers, that includes giving the highest priority to customers with NASA agreements as part of the utilization of the ISS as a national lab. NASA retains the right to review and approve selected customers. All manifesting and increment planning for the ISS National Lab will be coordinated through the agency of the entity chosen by NASA to operate the ISS National Lab.
- 8. Provide NASA with Operational Reports on all payloads flown under this agreement.
- 9. Provide NASA with reports on and findings from the research and development conducted with payloads flown under this agreement, subject to confidentiality agreements with customers concerning research results.
- 10. Conduct (either directly or via educational partners) periodic public workshops outlining results from ISS research and future opportunities for such research.
- 11. Maintain a list of Principle Investigators and their requirement for restricting use of their data (not to exceed one year). Kentucky Space shall update and share this list with NASA prior to each launch of a new investigation.
- 12. Arrange for flights to the ISS through the agency of the entity chosen by NASA to operate the ISS National Laboratory, or at Kentucky Space's discretion, directly through visiting vehicle providers (e.g. Energia [Progress, Soyuz], Space X [Dragon], Orbital Sciences [Cygnus], European Space Agency [Automated Transfer Vehicle] or Japan Aerospace Exploration Agency [H-II Transfer Vehicle]}.

ARTICLE 4. SCHEDULE AND MILESTONES

The planned major milestones for the activities defined in the "Responsibilities" Article are as follows:

Kentucky Space shall provide a project plan that includes a schedule for the development, manufacture and implementation of MultiLab-1. A status as opposed to a plan will be reported monthly to the National Lab Office.

Kentucky Space shall deliver an Operational Concept to NASA.

ICD shall be developed by Kentucky Space with NASA concurrence.

Kentucky Space shall provide a list of services that they will make available to their customers to support design, development, testing, integration of customers' esperiments.

Kentucky Space shall provide a plan to engage academic, commercial and governmental institutions to conduct research and development with the MultiLab-1.

Kentucky Space shall report on public workshops; intended to engage academic, commercial and governmental entities; held during the preceding 12 months and those planned for the next fiscal year

Kentucky Space shall provide a selection process for customers that includes giving the highest priority to customers with NASA agreements as part to the utilization of the ISS as a national lab.

Kentucky Space shall provide an Operational Report on all payloads flown under this Agreement. Operational Reports shall consist of hardware performance during operations while conducting research. It will include data such as anomalies and functional performance achieved versus planned.

Kentucky Space shall provide a Findings Report to NASA containing

within 30 days of Agreement signing

within 30 days of Agreement signing to be negotiated with NASA and maintained in Project Plan draft 30 days after signing Agreement; final list with NASA concurrence 60 days after signing

Jan 15, 2015

October 1 of each contract year

within 30 days of Agreement signing

30 days after each flight supporting Kentucky Space customers information on the results of research and the analysis of samples for all experiments run on Kentucky Space ISS hardware during the preceding 12 months.

May 15 of each contract year

Kentucky Space shall maintain a list of all Principal Investigators planning to utilize the MultiLab-1 and provide updates to NASA.

30 days prior to each launch of Kentucky Space customers' experiments

ARTICLE 5. FINANCIAL OBLIGATIONS

There will be no transfer of funds between the Parties under this Agreement and each Party will fund its own participation. All activities under or pursuant to this Agreement are subject to the availability of funds, and no provision of this Agreement shall be interpreted to require obligation or payment of funds in violation of the Anti-Deficiency Act, (31 U.S.C. § 1341).

ARTICLE 6. PRIORITY OF USE

Any schedule or milestone in this Agreement is estimated based upon the Parties' current understanding of the projected availability of NASA goods, services, facilities, or equipment. In the event that NASA's projected availability changes, Partner shall be given reasonable notice of that change, so that the schedule and milestones may be adjusted accordingly. The Parties agree that NASA's use of the goods, services, facilities, or equipment shall have priority over the use planned in this Agreement. Should a conflict arise, NASA in its sole discretion shall determine whether to exercise that priority. Likewise, should a conflict arise as between two or more non-NASA Partners, NASA, in its sole discretion, shall determine the priority as between those Partners. This Agreement does not obligate NASA to seek alternative government property or services under the jurisdiction of NASA at other locations.

ARTICLE 7. NONEXCLUSIVITY

This Agreement is not exclusive; accordingly, NASA may enter into similar agreements for the same or similar purpose with other private or public entities.

ARTICLE 8. LIABILITY AND RISK OF LOSS

- A. The objective of this Article is to establish a cross-waiver of liability in the interest of encouraging participation in the exploration, exploitation, and use of outer space through the International Space Station (ISS). The Parties intend that the cross-waiver of liability be broadly construed to achieve this objective.
- B. For the purposes of this Article:
- 1. The term "Damage" means:
 a. Bodily injury to, or other impairment of health of, or death of, any person;
- b. Damage to, loss of, or loss of use of any property;
- c. Loss of revenue or profits; or
- d. Other direct, indirect, or consequential Damage.
- 2. The term "Launch Vehicle" means an object, or any part thereof, intended for launch, launched from Earth, or returning to Earth which carries Payloads, persons, or both.
- 3. The term "Partner State" includes each Contracting Party for which the Agreement Among the Government of Canada, Governments of Member States of the European Space Agency, the Government of Japan, the Government of the Russian Federation, and the Government of the United States of America concerning Cooperation on the Civil International Space Station (IGA) has entered into force, pursuant to

Article 25 of the IGA or pursuant to any successor agreement. A Partner State includes its Cooperating Agency. It also includes any entity specified in the Memorandum of Understanding (MOU) between NASA and the Government of Japan to assist the Government of Japan's Cooperating Agency in the implementation of that MOU.

- 4. The term "Payload" means all property to be flown or used on or in a Launch Vehicle or the ISS.
- 5. The term "Protected Space Operations" means all Launch Vehicle or Transfer Vehicle activities, ISS activities, and Payload activities on Earth, in outer space, or in transit between Earth and outer space in implementation of this Agreement, the IGA, MOUs concluded pursuant to the IGA, and implementing arrangements. It includes, but is not limited to:
- a. Research, design, development, test, manufacture, assembly, integration, operation, or use of Launch Vehicles or Transfer Vehicles, the ISS, Payloads, or instruments, as well as related support equipment and facilities and services; and
- b. All activities related to ground support, test, training, simulation, or guidance and control equipment and related facilities or services.
- "Protected Space Operations" also includes all activities related to evolution of the ISS, as provided for in Article 14 of the IGA.
- "Protected Space Operations" excludes activities on Earth which are conducted on return from the ISS to develop further a Payload's product or process for use other than for ISS-related activities in implementation of the IGA.
- 6. The term "Related Entity" means:
- a. A contractor or subcontractor of a Party or a Partner State at any tier;
- b. A user or customer of a Party or a Partner State at any tier; or
- c. A contractor or subcontractor of a user or customer of a Party or a Partner State at any tier.

The terms "contractor" and "subcontractor" include suppliers of any kind.

- The term "Related Entity" may also apply to a State, or an agency or institution of a State, having the same relationship to a Partner State as described in paragraphs B.6.a. through B.6.c. of this Article or otherwise engaged in the implementation of Protected Space Operations as defined in paragraph B.5. above.
- 7. The term "Transfer Vehicle" means any vehicle that operates in space and transfers Payloads or persons or both between two different space objects, between two different locations on the same space object, or between a space object and the surface of a celestial body. A Transfer Vehicle also includes a vehicle that departs from and returns to the same location on a space object.
- C. Cross-waiver of liability:
- 1. Each Party agrees to a cross-waiver of liability pursuant to which each Party waives all claims against any of the entities or persons listed in paragraphs C.1.a. through C.1.d. of this Article based on Damage arising out of Protected Space Operations. This cross-waiver shall apply only if the person, entity, or property causing the Damage is involved in Protected Space Operations and the person, entity, or property damaged is damaged by virtue of its involvement in Protected Space Operations. The cross-waiver shall apply to any claims for Damage, whatever the legal basis for such claims, against:
- a. Another Party:
- b. A Partner State other than the United States of America;
- c. A Related Entity of any entity identified in paragraph C.1.a. or C.1.b. of this Article; or
- d. The employees of any of the entities identified in paragraphs C.1.a. through C.1.c. of this Article.
- 2. In addition, each Party shall, by contract or otherwise, extend the cross-waiver of liability, as set forth in paragraph C.1. of this Article, to its Related Entities by requiring them, by contract or otherwise, to:
- a. Waive all claims against the entities or persons identified in paragraphs C.1.a. through C.1.d. of this Article; and
- b. Require that their Related Entities waive all claims against the entities or persons identified in paragraphs C.1.a. through C.1.d. of this Article.
- 3. For avoidance of doubt, this cross-waiver of liability includes a cross-waiver of claims arising from the Convention on International Liability for Damage Caused by Space Objects, which entered into force on September 1, 1972, where the person, entity, or property causing the Damage is involved in Protected

Space Operations and the person, entity, or property damaged is damaged by virtue of its involvement in Protected Space Operations.

4. Notwithstanding the other provisions of this Article, this cross-waiver of liability shall not be applicable

to:

a. Claims between a Party and its own Related Entity or between its own Related Entities;

b. Claims made by a natural person, his/her estate, survivors or subrogees (except when a subrogee is a Party to this Agreement or is otherwise bound by the terms of this cross-waiver) for bodily injury to, or other impairment of health of, or death of, such person;

c. Claims for Damage caused by willful misconduct;

d. Intellectual property claims;

e. Claims for Damage resulting from a failure of a Party to extend the cross-waiver of liability to its Related Entities, pursuant to paragraph C.2. of this Article; or

f. Claims by a Party arising out of or relating to another Party's failure to perform its obligations under this Agreement.

5. Nothing in this Article shall be construed to create the basis for a claim or suit where none would otherwise exist.

D. To the extent that activities under this Agreement are not within the definition of "Protected Space Operations," defined above, the following unilateral waiver of claims applies to activities under this Agreement.

- 1. Partner hereby waives any claims against NASA, its employees, its related entities, (including, but not limited to, contractors and subcontractors at any tier, grantees, investigators, customers, users, and their contractors and subcontractors, at any tier) and employees of NASA's related entities for any injury to, or death of, Partner employees or the employees of Partner's related entities, or for damage to, or loss of, Partner's property or the property of its related entities arising from or related to activities conducted under this Agreement, whether such injury, death, damage, or loss arises through negligence or otherwise, except in the case of willful misconduct.
- 2. Partner further agrees to extend this unilateral waiver to its related entities by requiring them, by contract or otherwise, to waive all claims against NASA, its related entities, and employees of NASA and employees of NASA's related entities for injury, death, damage, or loss arising from or related to activities conducted under this Agreement.

ARTICLE 9. INTELLECTUAL PROPERTY RIGHTS - DATA RIGHTS

A. General

1. "Related Entity" as used in this Data Rights Article means a contractor, subcontractor, grantee, or other entity having a legal relationship with NASA or Partner that is assigned, tasked, or contracted to perform activities under this Agreement.

2. "Data" means recorded information, regardless of form, the media on which it is recorded, or the method

of recording

- 3. "Proprietary Data" means Data embodying trade secrets developed at private expense or commercial or financial information that is privileged or confidential, and that includes a restrictive notice, unless the Data is:
- a. known or available from other sources without restriction;
- b. known, possessed, or developed independently, and without reference to the Proprietary Data;
- c. made available by the owners to others without restriction; or
- d. required by law or court order to be disclosed.
- 4. Data exchanged under this Agreement is exchanged without restriction except as otherwise provided herein.
- 5. Notwithstanding any restrictions provided in this Article, the Parties are not restricted in the use,

disclosure, or reproduction of Data provided under this Agreement that meets one of the exceptions in 3., above. If a Party believes that any exceptions apply, it shall notify the other Party before any unrestricted use, disclosure, or reproduction of the Data.

- 6. The Parties will not exchange preexisting Proprietary Data under this Agreement unless authorized herein or in writing by the owner.
- 7. If the Parties exchange Data having a notice that the Receiving Party deems is ambiguous or unauthorized, the Receiving Party shall tell the Providing Party. If the notice indicates a restriction, the Receiving Party shall protect the Data under this Article unless otherwise directed in writing by the Providing Party.
- 8. The Data rights herein apply to the employees and Related Entities of Partner. Partner shall ensure that its employees and Related Entity employees know about and are bound by the obligations under this Article.
- 9. Disclaimer of Liability: NASA is not restricted in, or liable for, the use, disclosure, or reproduction of Data without a restrictive notice under paragraphs A.3., B. or H. of this Article or for Data Partner gives, or is required to give, the U.S. Government without restriction.
- 10. Partner may use the following or a similar restrictive notice under paragraphs A.3., B. and H. of this Article.

Proprietary Data Notice

The data herein include Proprietary Data and are restricted under the Data Rights provisions of Space Act Agreement SAA-OZ-14-17635.

Partner should also mark each page containing Proprietary Data with the following or a similar legend: "Proprietary Data – Use And Disclose Only Under the Notice on the Title or Cover Page."

B. Data First Produced by Partner Under this Agreement

If Data first produced by Partner or its Related Entities under this Agreement is given to NASA, and the Data is Proprietary Data, and it includes a restrictive notice, NASA will use reasonable efforts to protect it. The Data will be disclosed and used (under suitable protective conditions) only for U.S. Government purposes.

C. Data First Produced by NASA Under this Agreement

If Partner requests that Data first produced by NASA or its Related Entities under this Agreement be protected, and NASA determines it would be Proprietary Data if obtained from Partner, NASA will mark it with a restrictive notice and use reasonable efforts to protect it for two years after its development. During this restricted period the Data may be disclosed and used (under suitable protective conditions) for U.S. Government purposes only, and thereafter for any purpose. Partner must not disclose the Data without NASA's written approval during the restricted period. The restrictions placed on NASA do not apply to Data disclosing a NASA owned invention for which patent protection is being considered.

D. Publication of Results

The National Aeronautics and Space Act (51 U.S.C. § 20112) requires NASA to provide for the widest practicable and appropriate dissemination of information concerning its activities and the results thereof. As such, NASA may publish unclassified and non-Proprietary Data resulting from work performed under this Agreement. The Parties will coordinate publication of results allowing a reasonable time to review and comment.

E. Data Disclosing an Invention

If the Parties exchange Data disclosing an invention for which patent protection is being considered, and the furnishing Party identifies the Data as such when providing it to the Receiving Party, the Receiving Party shall withhold it from public disclosure for a reasonable time (one (1) year unless otherwise agreed or the Data is restricted for a longer period herein).

F. Copyright

Data exchanged with a copyright notice and no indication of restriction under paragraphs A.3., B, C, or H of this Article (i.e., Data has no restrictive notice) is presumed to be published. The following royalty-free licenses apply.

1. If indicated on the Data that it was produced outside of this Agreement, it may be reproduced, distributed, and used to prepare derivative works only for carrying out the Receiving Party's responsibilities

under this Agreement.

2. Data without the indication of 1. is presumed to be first produced under this Agreement. Except as otherwise provided in paragraph E. of this Article, and in the Invention and Patent Rights Article of this Agreement for protection of reported inventions, the Data may be reproduced, distributed, and used to prepare derivative works for any purpose.

G. Data Subject to Export Control

Whether or not marked, technical data subject to the export laws and regulations of the United States provided to Partner under this Agreement must not be given to foreign persons or transmitted outside the United States without proper U.S. Government authorization.

- H. Handling of Background, Third Party Proprietary, and Controlled Government Data
- 1. NASA or Partner (as Disclosing Party) may provide the other Party or its Related Entities (as Receiving Party):

a. Proprietary Data developed at Disclosing Party's expense outside of this Agreement (referred to as Background Data);

- b. Proprietary Data of third parties that Disclosing Party has agreed to protect or is required to protect under the Trade Secrets Act (18 U.S.C. § 1905) (referred to as Third Party Proprietary Data); and
- c. U.S. Government Data, including software and related Data, Disclosing Party intends to control (referred to as Controlled Government Data).
- 2. All Background, Third Party Proprietary and Controlled Government Data provided by Disclosing Party to Receiving Party shall be marked by Disclosing Party with a restrictive notice and protected by Receiving Party in accordance with this Article.

3. Disclosing Party provides the following Data to Receiving Party. The lists below may not be comprehensive, are subject to change, and do not supersede any restrictive notice on the Data.

a. Background Data:

None

b. Third Party Proprietary Data:

None

c. Controlled Government Data:

None

d. NASA software and related Data will be provided to Partner under a separate Software Usage Agreement (SUA). Partner shall use and protect the related Data in accordance with this Article. Unless the SUA authorizes retention, or Partner enters into a license under 37 C.F.R. Part 404, the related Data shall be disposed of as NASA directs:

4. For Data with a restrictive notice and Data identified in this Agreement, Receiving Party shall:

- a. Use, disclose, or reproduce the Data only as necessary under this Agreement;
- b. Safeguard the Data from unauthorized use and disclosure;
- c. Allow access to the Data only to its employees and any Related Entity requiring access under this Agreement;
- d. Except as otherwise indicated in 4.c., preclude disclosure outside Receiving Party's organization;
- e. Notify its employees with access about their obligations under this Article and ensure their compliance, and notify any Related Entity with access about their obligations under this Article; and
- f. Dispose of the Data as Disclosing Party directs.

I. Oral and visual information

If Partner discloses Proprietary Data orally or visually, NASA will have no duty to restrict, or liability for disclosure or use, unless Partner:

- 1. Orally informs NASA before initial disclosure that the Data is Proprietary Data, and
- 2. Reduces the Data to tangible form with a restrictive notice as required by paragraphs A.3., B, and H of this Article, and gives it to NASA within ten (10) calendar days after disclosure.

ARTICLE 10. INTELLECTUAL PROPERTY RIGHTS - INVENTION AND PATENT RIGHTS

A. General

- 1. NASA has determined that 51 U.S.C. § 20135(b) does not apply to this Agreement. Therefore, title to inventions made (conceived or first actually reduced to practice) under this Agreement remain with the respective inventing party(ies). No invention or patent rights are exchanged or granted under this Agreement, except as provided herein.
- 2. "Related Entity" as used in this Invention and Patent Rights Article means a contractor, subcontractor, grantee, or other entity having a legal relationship with NASA or Partner assigned, tasked, or contracted with to perform activities under this Agreement.
- 3. The invention and patent rights herein apply to employees and Related Entities of Partner. Partner shall ensure that its employees and Related Entity employees know about and are bound by the obligations under this Article.

B. NASA Inventions

NASA will use reasonable efforts to report inventions made under this Agreement by its employees. Upon request, NASA will use reasonable efforts to grant Partner, under 37 C.F.R. Part 404, a negotiated license to any NASA invention made under this Agreement. This license is subject to paragraph E.1. of this Article.

C. NASA Related Entity Inventions

NASA will use reasonable efforts to report inventions made under this Agreement by its Related Entity employees, or jointly between NASA and Related Entity employees, where NASA has the right to acquire title. Upon request, NASA will use reasonable efforts to grant Partner, under 37 C.F.R. Part 404, a negotiated license to any of these inventions where NASA has acquired title. This license is subject to paragraph E.2. of this Article.

D. Joint Inventions With Partner

The Parties will use reasonable efforts to report, and cooperate in obtaining patent protection on, inventions made jointly between NASA employees, Partner employees, and employees of either Party's Related

Entities. Upon timely request, NASA may, at its sole discretion and subject to paragraph E. of this Article: 1. refrain from exercising its undivided interest inconsistently with Partner's commercial business; or 2. use reasonable efforts to grant Partner, under 37 C.F.R. Part 404, an exclusive or partially exclusive negotiated license.

E. Rights to be Reserved in Partner's License

Any license granted Partner under paragraphs B., C., or D. of this Article is subject to the following:

1. For inventions made solely or jointly by NASA employees, NASA reserves the irrevocable, royalty-free right of the U.S. Government to practice the invention or have it practiced on behalf of the United States or on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

2. For inventions made solely or jointly by employees of a NASA Related Entity, NASA reserves the rights in 1. above, and a revocable, nonexclusive, royalty-free license retained by the Related Entity under 14

C.F.R. § 1245.108 or 37 C.F.R. § 401.14 (e).

F. Protection of Reported Inventions

For inventions reported under this Article, the Receiving Party shall withhold all invention reports or disclosures from public access for a reasonable time (1 year unless otherwise agreed or unless restricted longer herein) to facilitate establishment of patent rights.

- G. Patent Filing Responsibilities and Costs
- 1. The invention and patent rights herein apply to any patent application or patents covering an invention made under this Agreement. Each Party is responsible for its own costs of obtaining and maintaining patents covering sole inventions of its employees. The Parties may agree otherwise, upon the reporting of any invention (sole or joint) or in any license granted.
- 2. Partner shall include the following in patent applications for an invention made jointly between NASA employees, its Related Entity employees and Partner employees:

The invention described herein may be manufactured and used by or for the U.S. Government for U.S. Government purposes without the payment of royalties thereon or therefore.

ARTICLE 11. USE OF NASA NAME AND EMBLEMS

A. NASA Name and Initials

Partner shall not use "National Aeronautics and Space Administration" or "NASA" in a way that creates the impression that a product or service has the authorization, support, sponsorship, or endorsement of NASA, which does not, in fact, exist. Except for releases under the "Release of General Information to the Public and Media" Article, Partner must submit any proposed public use of the NASA name or initials (including press releases and all promotional and advertising use) to the NASA Associate Administrator for the Office of Communications or designee ("NASA Communications") for review and approval. Approval by NASA Office of Communications shall be based on applicable law and policy governing the use of the NASA name and initials.

B. NASA Emblems

Use of NASA emblems (i.e., NASA Seal, NASA Insignia, NASA logotype, NASA Program Identifiers, and the NASA Flag) is governed by 14 C.F.R. Part 1221. Partner must submit any proposed use of the emblems to NASA Communications for review and approval.

ARTICLE 12. RELEASE OF GENERAL INFORMATION TO THE PUBLIC AND MEDIA

NASA or Partner may, consistent with Federal law and this Agreement, release general information regarding its own participation in this Agreement as desired. To the extent that any public release of information includes discussion of the activities of the other party, the parties should seek to consult with each other beforehand on the content of any such releases.

ARTICLE 13. DISCLAIMER OF WARRANTY

Goods, services, facilities, or equipment provided by NASA under this Agreement are provided "as is." NASA makes no express or implied warranty as to the condition of any such goods, services, facilities, or equipment, or as to the condition of any research or information generated under this Agreement, or as to any products made or developed under or as a result of this Agreement including as a result of the use of information generated hereunder, or as to the merchantability or fitness for a particular purpose of such research, information, or resulting product, or that the goods, services, facilities or equipment provided will accomplish the intended results or are safe for any purpose including the intended purpose, or that any of the above will not interfere with privately-owned rights of others. Neither the government nor its contractors shall be liable for special, consequential or incidental damages attributed to such equipment, facilities, technical information, or services provided under this Agreement or such research, information, or resulting products made or developed under or as a result of this Agreement.

ARTICLE 14. DISCLAIMER OF ENDORSEMENT

NASA does not endorse or sponsor any commercial product, service, or activity. NASA's participation in this Agreement or provision of goods, services, facilities or equipment under this Agreement does not constitute endorsement by NASA. Partner agrees that nothing in this Agreement will be construed to imply that NASA authorizes, supports, endorses, or sponsors any product or service of Partner resulting from activities conducted under this Agreement, regardless of the fact that such product or service may employ NASA-developed technology.

ARTICLE 15. COMPLIANCE WITH LAWS AND REGULATIONS

A. The Parties shall comply with all applicable laws and regulations including, but not limited to, safety; security; export control; environmental; and suspension and debarment laws and regulations. Access by a Partner to NASA facilities or property, or to a NASA Information Technology (IT) system or application, is contingent upon compliance with NASA security and safety policies and guidelines including, but not limited to, standards on badging, credentials, and facility and IT system/application access.

- B. With respect to any export control requirements:
- 1. The Parties will comply with all U.S. export control laws and regulations, including the International Traffic in Arms Regulations (ITAR), 22 C.F.R. Parts 120 through 130, and the Export Administration Regulations (EAR), 15 C.F.R. Parts 730 through 799, in performing work under this Agreement or any Annex to this Agreement. In the absence of available license exemptions or exceptions, the Partner shall be responsible for obtaining the appropriate licenses or other approvals, if required, for exports of hardware,

technical data and software, or for the provision of technical assistance.

- 2. The Partner shall be responsible for obtaining export licenses, if required, before utilizing foreign persons in the performance of work under this Agreement or any Annex under this Agreement, including instances where the work is to be performed on-site at NASA and where the foreign person will have access to export-controlled technical data or software.
- 3. The Partner will be responsible for all regulatory record-keeping requirements associated with the use of licenses and license exemptions or exceptions.
- 4. The Partner will be responsible for ensuring that the provisions of this Article apply to its Related Entities.

C With respect to suspension and debarment requirements:

- 1. The Partner hereby certifies, to the best of its knowledge and belief, that it has complied, and shall comply, with 2 C.F.R. Part 180, Subpart C, as supplemented by 2 C.F.R. Part 1880, Subpart C.
- 2. The Partner shall include language and requirements equivalent to those set forth in subparagraph C.1., above, in any lower-tier covered transaction entered into under this Agreement.

ARTICLE 16. TERM OF AGREEMENT

This Agreement becomes effective upon the date of the last signature below ("Effective Date") and shall remain in effect until five years from the Effective Date.

ARTICLE 17. RIGHT TO TERMINATE

Either Party may unilaterally terminate this Agreement by providing thirty (30) calendar days written notice to the other Party.

ARTICLE 18. CONTINUING OBLIGATIONS

The rights and obligations of the Parties that, by their nature, would continue beyond the expiration or termination of this Agreement, e.g., "Liability and Risk of Loss" and "Intellectual Property Rights" related clauses shall survive such expiration or termination of this Agreement.

ARTICLE 19. POINTS OF CONTACT

The following personnel are designated as the Points of Contact between the Parties in the performance of this Agreement.

Management Points of Contact

NASA Lyndon B. Johnson Space Center Michael E. Read Manager, ISS National Lab Mail Stop: OZ4 2101 NASA Parkway Kentucky Space, LLC Kris Kimel President Mail Suite: P.O. Box 1049 200 West Vine Street

Houston, Texas 77058 Phone: (281) 244-7656 Fax: (281) 244-8292

michael.e.read@nasa.gov

Suite 420

Lexington, KY 40507 Phone: (859) 233-3502 Fax: (859) 259-0986

kkimel@kentuckyspace.com

Technical Points of Contact

NASA Lyndon B. Johnson Space Center

Micheal A. Culp

Project Manager, ISS National Lab

Mail Suite: OZ1 2101 NASA Parkway Houston, Texas 77058 Phone: (281) 244-8469

Fax: (281) 244-8292

micheal.a.culp@nasa.gov

Principle Investigator Point of Contact

NASA Lyndon B. Johnson Space Center 2101 NASA Parkway

Houston, Texas 77058

Kentucky Space, LLC

Twyman Clements Space Systems Engineer Mail Suite: P.O. Box 1049 200 West Vine Street

Suite 420

Lexington, KY 40507 Phone: (859) 246-3248

Fax: (859) 259-0986

tclements@kentuckyspace.com

Kentucky Space, LLC 200 West Vine Street Suite 420 Lexington, KY 40507

ARTICLE 20. DISPUTE RESOLUTION

Except as otherwise provided in the Article entitled "Priority of Use," the Article entitled "Intellectual Property Rights - Invention and Patent Rights" (for those activities governed by 37 C.F.R. Part 404), and those situations where a pre-existing statutory or regulatory system exists (e.g., under the Freedom of Information Act, 5 U.S.C. § 552), all disputes concerning questions of fact or law arising under this A greement shall be referred by the claimant in writing to the appropriate person identified in this Agreement as the "Points of Contact." The persons identified as the "Points of Contact" for NASA and the Partner will consult and attempt to resolve all issues arising from the implementation of this Agreement. If they are unable to come to agreement on any issue, the dispute will be referred to the signatories to this Agreement, or their designees, for joint resolution. If the Parties remain unable to resolve the dispute, then the NASA signatory or that person's designee, as applicable, will issue a written decision that will be the final agency decision for the purpose of judicial review. Nothing in this Article limits or prevents either Party from pursuing any other right or remedy available by law upon the issuance of the final agency decision.

ARTICLE 21. INVESTIGATIONS OF MISHAPS AND CLOSE CALLS

In the case of a close call, mishap or mission failure, the Parties agree to provide assistance to each other in the conduct of any investigation. For all NASA mishaps or close calls, Partner agrees to comply with NPR 8621.1, "NASA Procedural Requirements for Mishap and Close Call Reporting, Investigating, and Recordkeeping" and JPR 8621.1, "Johnson Space Center Mishap Response Plan." This Article does not apply where activities under this Agreement are undertaken at Partner's facility and where no NASA personnel, hardware, equipment or other property is present and subject to injury, damage or loss.

ARTICLE 22. MODIFICATIONS

Any modification to this Agreement shall be executed, in writing, and signed by an authorized representative of NASA and the Partner.

ARTICLE 23. ASSIGNMENT

Neither this Agreement nor any interest arising under it will be assigned by the Partner or NASA without the express written consent of the officials executing, or successors, or higher-level officials possessing original or delegated authority to execute this Agreement.

ARTICLE 24. APPLICABLE LAW

U.S. Federal law governs this Agreement for all purposes, including, but not limited to, determining the validity of the Agreement, the meaning of its provisions, and the rights, obligations and remedies of the Parties.

ARTICLE 25. INDEPENDENT RELATIONSHIP

This Agreement is not intended to constitute, create, give effect to or otherwise recognize a joint venture, partnership, or formal business organization, or agency agreement of any kind, and the rights and obligations of the Parties shall be only those expressly set forth herein.

ARTICLE 26. SIGNATORY AUTHORITY

The signatories to this Agreement covenant and warrant that they have authority to execute this Agreement. By signing below, the undersigned agrees to the above terms and conditions.

Approval

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	KENTUCKY SPACE, LLC
LYNDON B. JOHNSON SPACE CENTER	
BY:	BY:
Michael T. Suffredign	Kris Kimel
Manager, International Space Station Program	President
	200 West Vine Street
	Suite 420
4	Lexington, KY 40507
~/8/2mul	1/2/10
1/ 0/ 2019	DATE: 10/20/14